

13. The method of claim 12 wherein the first type of data is video and the second type of data is voice.

1 14. A CDMA transmission method comprising:

- 2 • combining data of at least two types into a single output data stream, the at least two  
3 types comprising variable rate real-time data and non-real-time data, the non-real-time  
4 data being added to the output data stream only when an expected capacity of a  
5 transmission channel is greater than the data rate of the real-time data;  
6 • encoding the combined data using a single spreading code, so that the combined data  
7 occupies a single transmission channel; and  
8 • transmitting the encoded data on a single transmission channel.

1 15. A receiving method comprising:

- 2 • receiving a combined data stream from a transmission channel;  
3 • demodulating the data stream;  
4 • reading the frame header to determine which frames contain packet data and which  
5 frames contain speech data;  
6 • reconstituting the speech and packet data;  
7 • providing the speech data to a speech decoder; and  
8 • providing a speech output signal and a packet data output signal at distinct output  
9 devices.

1 16. A TDMA transmission method comprising:

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- 2 • accumulating non-real-time packet data;
  - 3 • allocating real-time data to an output data stream;
  - 4 • determining when the real-time data does not require the full capacity of a transmission
  - 5 channel;
  - 6 • allocating the non-real-time packet data to the output stream, when the real-time data
  - 7 does not require the full capacity;
  - 8 • allocating output data stream to a channel that occupies more than one slot in a
  - 9 transmission time frame.

1 17. A TDMA transmission method comprising:

- 2 • accumulating non-real-time packet data;
- 3 • variably allocating real-time data and the non-real-time to multiple time segments within
- 4 a time frame when the real-time data does not require the full capacity of a transmission
- 5 channel; and
- 6 • transmitting the time frame.

1 18. A transmission method comprising:

- 2 • allocating at least first and second types of data to a single output data stream, the first
- 3 type of data being real time data and the second type of data being non-real time packet
- 4 data, the second type of data being added when the data rate of the first type of data is
- 5 less than an expected capacity of a transmission channel;
- 6 • transmitting the single output data stream on a single multiple mode channel;